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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

OPPTS/OPP/RD/TRB/PRODUCT CHEMISTRY TEAM

WASHINGTON, D.C. 20460

DATE OUT: November 30, 2005

SUBJECT: Product Chemistry Review of Capture LFR Soil  
Insecticide  
Barcode #:321166 Decision #:357683 Reg No:279-GGNE  
PC Code(s):128825 Food Use:Yes

FROM: Linda L. Kutney, Chemist *Linda L. Kutney*  
Product Chemistry Team *11/30/05*  
Technical Review Branch/RD (7505C) *12/20/05*  
TO: George LaRocca, BeWanda Alexander RM-13  
Insecticide Branch/ RD (7505C)

INTRODUCTION:

FMC has submitted product chemistry data to support registration and a basic CSF (dated 5/17/05) for Capture LFR Soil Insecticide, containing a label concentration of 17.15% Bifenthrin (97% min. cis and 3% max. trans). Capture LFR Soil Insecticide is to be used on various food crops. Data were submitted under MRID 465559701.

The Registrant claims this new product is used at the same rate, and on the same sites, as their product, Capture 2EC, Reg No 279-3069.

All data were provided using the Bifenthrin SC, substance PL05-0078 formulation, which is identical to Capture FLR Soil Insecticide.

SUMMARY OF FINDINGS:

1. The storage and disposal statements on the Capture LFR Soil Insecticide label are acceptable.
2. The nominal concentration for all of the proposed CSFs agrees with the label claim for Capture LFR Soil Insecticide (PRN 91-2 is satisfied).
3. All inert components of the CSF are acceptable for use on foods.



TRB CONCLUSIONS:

The proposed basic CSF (dated 5/17/05) for Capture LFR Soil Insecticide is acceptable, but the name Capture LFR Soil Insecticide should replace Bifenthrin SC in box 2.

Subgroup A and B data requirements for Capture LFR Soil Insecticide are acceptable except the following:

1. Storage Stability - 830.6317 - In Progress
2. Corrosion Characteristics - 830.6320 - In Progress

PRODUCT CHEMISTRY DATA (SERIES 830 Subgroup A & Subgroup B)

Subgroup A, Requirement 830.--:	Data OK?	MRID
1550. Chemical Identity (CSF)	Yes	CSF
1600. Beginning Materials 1650. Formulation Process	Yes Yes	46559701 46559701
1670. Discussion of Impurities	Yes	46559701
1750. Certified Limits (CSF)	Yes	CSF
1800 Enforcement Analytical Method	Yes, APG # 519, p 20-32 GC, 30 m x 530 micron ID column, HP Mod. 6890 GC with Chem Station software, megabore capillary DB-1 column 12 min time, 225 - 275C oven, 5.0 ml/min, inj port 250C, detector temp 275C, Helium gas	46559701



<u>Subgroup B, Guideline 830.-:</u>	<u>Data OK?</u>	<u>Description</u>	<u>MRID</u>
6302 Color	Yes	NA	46559701
6303 Physical State	Yes	Liquid and Solid mixture @ 23C	46559701
6304 Odor	Yes	NA	46559701
6314 Oxidation/Reduction	Yes	Contains no strong oxidizing or reducing agents.	46559701
6315 Flammability	Yes	>210 F (>99C)	46559701
6316 Explodability	Yes	Not reported to contain explosive components.	46559701
6317 Storage Stability	NO	Study in progress.	46559701
6319 Miscibility	Yes	NA. Not mixed with petroleum solvents.	46559701
6320 Corrosion Characteristics	NO	Study in progress.	46559701
6321 Dielectric Breakdown Voltage	Yes	Not used around electrical equipment.	46559701
7000 pH	Yes	6.08 (1%)	46559701
7100 Viscosity	Yes	5300 cps @5 rpm 700 cps @ 50 rpm Both at 23C	46559701
7300. Density/Bulk Density	Yes	1.0496 g/ml (8.76 lb/gal) @ 20C	46559701

Explanations: NA = Not Applicable